I hereby certify that this paper is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV534444713US, on the date shown below in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450

Dated: May 15, 2007

Signature: Masemain Le

(Rosemarie Puljie-Salmeron)

Patent Docket No. 608352000100

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

for re Patent Application of: Tania KASTELIC et al.

Serial No.: 10/814,634

Filing Date: April 1, 2004

For: ASSAY FOR IDENTIFYING

COMPOUNDS WHICH AFFECT

STABILITY OF MRNA

Examiner: C. Qian

Group Art Unit: 1636

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. U.S. Patent/Patent Applications (documents numbered 1, 2 and 8) are not submitted herewith. Copies of foreign documents and non-patent literature (documents numbered 12, 14, 15, 19, 26, 30-35, 38, 46, 47, 49, 55 and 59) are submitted herewith. However, copies of the remaining documents cited in the attached Form PTO/SB/08a/b were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial Number 09/869 159, filed August 15, 2001, and, accordingly, copies are not included herewith. This protected conforms with 37 C.F.R. \$1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

	I his Ini	formation Disclosure Statement is submitted:
	With	the application; accordingly, no fee or separate requirements are required.
	Befor	e the mailing of a first Office Action after the filing of a Request for Continued
	Exam	ination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97
	(e)(1)	has been provided.
	Withi	n three months of the application filing date or before mailing of a first Office Action
	on the	e merits; accordingly, no fee or separate requirements are required. However, if
	applic	able, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
\boxtimes	After	receipt of a first Office Action on the merits but before mailing of a final Office Action
	or No	tice of Allowance.
		A fee is required. A check in the amount of is enclosed.
	\boxtimes	A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to
		this submission in duplicate.
		A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee is
		believed to be due.
	After	mailing of a final Office Action or Notice of Allowance, but before payment of the
	issue	fee.
		A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the
		amount of is enclosed.
		A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal
		form (PTO/SB/17) is attached to this submission in duplicate.

Applicants would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist;

Patent Docket No. 608352000100

(iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 608352000100.

Dated: May 15, 2007

Respectfully submitted,

Jill A. Jacobson

Registration No.: 40,030 MORRISON & FOERSTER LLP

755 Page Mill Road

Palo Alto, California 94304-1018

(650) 813-5876



Complete if Known Substitute for form 1449/PTO Application Number 10/814,634 Filing Date April 1, 2004 INFORMATION DISCLOSURE First Named Inventor Tania KASTELIC STATEMENT BY APPLICANT Art Unit 1636 (Use as many sheets as necessary) C. Qian Examiner Name Sheet 1 4 Attorney Docket Number 608352000100

	U.S. PATENT DOCUMENTS							
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where			
Initials*	No.1	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
	1.	US-2004/0214223-A1	10-28-2004	Cao et al.				
	2.	US-2005/0048549-A1	03-03-2005	Cao et al.				
	3.	US-5,444,149-A	08-22-1995	Keene et al.				
	4.	US-5,587,300-A	12-24-1996	Malter				
	5.	US-5,698,427-A	12-16-1997	Keene et al.				
	6.	US-5,731,343-A	03-24-1998	Feng et al.				
	7.	US-6,635,671-B1	10-21-2003	Kastelic et al.				
	8.	US-7,078,171-B2	07-18-2006	Giordano et al.				

		FOREI	GN PATENT	DOCUMENTS		
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	
Initials*	No.1	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)		Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶
	9.	GB-9828707.1	02-17-1999	Novation Pharmaceuticals, Inc.		
	10.	GB-9828710.5	02-17-1999	Novation Pharmaceuticals, Inc.		
	11.	WO-93/20212-A1	10-14-1993	The Government of the United States of America as represented by The Secretary, Department of Health and Human Services		
	12.	WO-95/33831-A1	12-14-1995	Creative Biomolecules, Inc.		
	13.	WO-98/39484-A1	09-11-1998	Scriptgen Pharmaceuticals, Inc.		
	14.	WO-00/39314-A1	07-06-2000	Novation Pharmaceuticals, Inc.		
	15.	WO-2004/065561-A2	08-05-2004	PTC Therapeutics, Inc.		

^{*}EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Nind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

	NON PATENT LITERATURE DOCUMENTS							
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²					
	16.	Akashi, M. et al. (1994). "Number and Location of AUUUA Motifs: Role in Regulating Transiently Expressed RNAs," <i>Blood</i> 83:3182-3187.						
	17.	Auwerx, J. (1991). "The Human Leukemia Cell Line, THP-1: A Multifaceted Model for the Study of Monocyte-Macrophage Differentiation," <i>Experienta</i> 47:22-31.						
	18.	Banholzer, R. et al. (June 1997). "Rapamycin Destabilizes Interleukin-3 mRNA in Autocrine Tumor Cells by a Mechanism Requiring an Intact 3' Untranslated Region," <i>Molecular and Cellular Biology</i> 17(6):3254-3260.						
	19.	Bernstein, P.L. et al. (April 1992). "Control of c-myc mRNA Half-Life in vitro by a Protein Capable of Binding to a Coding Region Stability Determinant," Genes Dev. 6(4):642-654.						

Examiner	Date
Signature	Considered
4404040	

Sub	stitute for form 1449/PTO			Complete if Known		
	Suitate 101 101111 1449/F10			Application Number	10/814,634	
l in	IFORMATIO	N DIS	CLOSURE	Filing Date	April 1, 2004	
	TATEMENT			First Named Inventor	Tania KASTELIC	
		-		Art Unit	1636	
	(Use as many s	heets as n	ecessary)	Examiner Name	C. Qian	
Sheet	2	of	4	Attorney Docket Number	608352000100	

	20.	Beutler, B. et al. (1988). "Assay of a Ribonuclease That Preferentially Hydrolyses mRNAs Containing Cytokine-Derived UA-Rich Instability Sequences," <i>Biochem. Biophys. Res. Comm.</i> 152:973-980.
	21.	Chen, CY.A. et al. (1994). "Interplay of Two Functionally and Structurally Distinct Domains of the c-fos AU-Rich Element Specifies Its mRNA-Destabilizing Function," <i>Mol. Cell. Biol.</i> 14:416-426.
	22.	Chen, CY.A. et al. (1994). "Selective Degradation of Early-REsponse-Gene mRNAs: Functional Analyses of Sequence Features of the AU-Rich Elements," <i>Mol. Cell. Biol.</i> 14:8471-8482.
	23.	Chen, CY.A. et al. (1995). "AU-Rich Elements: Characterizatiopn and Importance in mRNA Degradation," <i>TIBS</i> 20:465-470.
	24.	Chen, CY.A. et al. (1995). "mRNA Decay Mediated by Two Distinct AU-Rich Elements from c-fos and Granulocyte-Macrophage Colony-Stimulating Factor Transcripts: Different Deadenylation Kinetics and Uncoupling from Translation," Mol. Cell. Biol. 15:5777-5788.
	25.	Claffey, K.P. et al. (February 1998). "Identification of a Human VPF/VEGF 3' Untranslated Region Mediating Hypoxia-Induced mRNA Stability," <i>Mol. Biol. Cell</i> 9:469-481.
•	26.	Cleveland, D.W. et al. (November 1989). "Multiple Determinants of Eukaryotic mRNA Stability," New. Biol. 1(2):121-126.
	27.	Crawford, E.K. et al. (August 1997). "The Role of 3' Poly(A) Tail Metabolism in Tumor Necrosis Factor-α Regulation," <i>J. Biol. Chem.</i> 272:21120-21127.
	28.	Danner, S. et al. (February 1998). "Agonist REgulation of Human β ₂ -Adrenergic Receptor mRNA Stability Occurs via a Specific AU-Rich Element," <i>J. Biol. Chem.</i> 273:3223-3229.
	29.	Fan, X.C. (June 1998). "Overexpression of HuR, a Nuclear-Cytoplasmic Shuttling Protein, Increases the <i>in vivo</i> stability of ARE-Containing mRNAs," <i>EMBO J.</i> 17:3448-3460.
	30.	GenBank Accession No. AF022375, created October 7, 1998, located at http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=3719220 , last visited on February 7, 2007, two pages.
	31.	GenBank Accession No. D10493, created May 29, 2002, located at http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nuccore&val=219932 , last visited on February 7, 2007, seven pages.
	32.	GenBank Accession No. M13994, created October 31, 1994, located at http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=179366 , last visited on December 29, 2006, three pages.
	33.	GenBank Accession No. U40398, created March 13, 1997, located at http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1117909 , last visited on December 29, 2006, three pages.
	34.	GenBank Accession No. X04500, created November 14, 2006, located at http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=33788 , last visited on December 29, 2006, six pages.
	35.	GenBank Accession No. Y00264, created September 12, 1993, located at http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=28525 , last visited on December 29, 2006, three pages.
	36.	Gil, P. et al. (1996). "Multiple Regions of the <i>Arabidopsis SAUR-AC1</i> Gene Control Transcript Abundance: the 3' Untranslated Region Functions as a mRNA Instability Determinant," <i>EMBO J.</i> 15:1678-1686.
	37.	Heaton, J.H. et al. (June 1998). "Cyclic Nucleotide Regulation of Type-1 Plasminogen Activator-Inhibitor mRNA Stability in Rat Hepatoma Cells," <i>J. Biol. Chem.</i> 273:14261-14268.
	38.	International Search Report mailed June 6, 2000, for PCT Application No. PCT/CA99/01235 filed December 23, 1999, three pages.
	39.	Kastelic, T. et al. (October 1996). "Induction of Rapid IL-1B mRNA Degradation in Thp-1 Cells Mediated Through the AU-rich Region in the 3' UTR by a Radcicol Analogue," <i>Cytokine</i> 8(10):751-761.

Examiner	Date	
Signature	Considered	

Sub	stitute for form 1449/PTO			Complete if Known		
900	Suitate 101 101111 1449/1-10			Application Number	10/814,634	
l in	FORMATIO	N DI	SCLOSURE	Filing Date	April 1, 2004	
	TATEMENT			First Named Inventor	Tania KASTELIC	
	.,	,		Art Unit	1636	
	(Use as many si	heets as	necessary)	Examiner Name	C. Qian	
Sheet	neet 3 of 4		Attorney Docket Number	608352000100		

40.	Klausner, R.D. et al. (1993). "Regulating the Fate of mRNA: The Control of Cellular Iron Metabolism," Cell 72:19-28.	
41.	Kobayashi, M. et al. (July 1998). "Characterization of the 3' Untranslated Region of Mouse DNA Topoisomerase IIa mRNA," Gene 215:329-337.	
42.	Lagnado, C.A. et al. (1994). "AUUUA Is Not Sufficient to Promote Poly(A) Shortening and Degradation of an mRNA: The Functional Sequence Within AU-Rich Elements May Be UUAUUUA(U/A)(U/A)," Mol. Cell. Biol. 14:7984-7995.	
43.	Levy, A.P. et al. (1996). "Post-Transcriptional Regulation of Vascular Endothelial Growth Factor by Hypoxia," <i>J. Biol. Chem.</i> 271:2746-2753.	
44.	Levy, J.R. et al. (1995). "Sequence and Functional Characterization of the Terminal Exon of the Human Insulin Receptor Gene," <i>Biochim. Biophys. Acta</i> 1263:253-257.	
45.	Lewis, T. et al. (May 1998). "Mapping of a Minimal AU-Rich Sequence Required for Lipopolusaccharide-Induced Binding of a 55-kDa Protein on Tumor Necrosis Factor-α mRNA," <i>J. Biol. Chem.</i> 273:13781-13786.	
46.	Mitchell, P. et al. (April 2000). "mRNA Stability in Eukaryotes," Curr. Opin. Genet. Dev. 10:193-198.	
47.	Mitchell, P. et al. (June 2001). "mRNA Turnover," Curr. Opin. Cell. Biol. 13(3):320-325.	
48.	Nanbu, R. et al. (1994). "Multiple Instability-Regulating Sites in the 3' Untranslated Region of the Urokinase-Type Plasminogen Activator mRNA," <i>Mol. Cell. Biol.</i> 14:4920.	
49.	Ross, J. (September 1995). "mRNA Stability in Mammalian Cells," <i>Microbiol. Rev.</i> 59(3):423-450.	
50.	Sachs, A.B. (1993). "Messenger RNA Degradation in Eukaryotes," Cell 74:413-421.	
51.	Sambrook, J. et al. (1989). "Calcium Phosphate-Mediated Transfection of Adherent Cells in Suspension" <i>In</i> Chapter 16 <i>In</i> Molecular Cloning A Laboratory Manual, Cold Spring Harbor Laboratory Press: Cold Spring Harbor, NY, pg. 16.37.	
52.	Sambrook, J. et al. (1989). "Standard Protocol for Calcium Phosphate-Mediated Transfection of Adherent Cells" <i>In</i> Chapter 16 <i>In</i> Molecular Cloning A Laboratory Manual, Cold Spring Harbor Labortory Press: Cold Spring Harbor, NY, pp. 16.33-16.36.	
53.	Shaw, G. et al. (1986). "A Conserved AU Sequence from the 3' Untranslated Region of GM-CSF mRNA Mediates Selective mRNA Degradation," <i>Cell</i> 46:659-667.	
54.	Shyu, AB. et al. (1991). "Two Distinct Destabilizing Elements in the c-fos Message Trigger Deadenylation as a First Step in Rapid mRNA Decay," <i>Genes & Development</i> 15:221-231.	
55.	Staton, J.M. et al. (August 2000). "Hormonal Regulation of mRNA Stability and RNA-Protein Interactions in the Pituitary," <i>J. Mol. Endocrinology</i> 25(1):17-34.	
56.	Stoecklin, G. et al. (1994). "Functional Hierarchy of AUUUA Motifs in Mediating Rapid Interleukin-3 mRNA Decay," <i>J. Biol. Chem.</i> 269:28591-28597.	
57.	Stolle, C.A. et al. (1988). "Cellular Factor Affecting the Stability of β-Globin mRNA," <i>Gene</i> 62:65-74.	
58.	Sullivan, M.L. et al. (1996). "Mutational Analysis of the DST Element in Tobacco Cells and Transgenic Plants: Identification of Residues Critical for mRNA Instability," RNA 2:308-315.	
59.	Wilusz, C.J. et al. (April 11, 2001). "The Cap-To-Tail Guide to mRNA Turnover," Nat. Rev. Mol. Cell. Biol. 2(4):237-246.	
60.	Winstall, E. et al. (1995). "Rapid mRNA Degradation Mediated by the <i>c-fos</i> 3' AU-Rich Element and That Mediated by the Granulocyte-Macrophage Colony-Stimulating Factor 3' AU-Rich Element Occur Through Similar Polysome-Associated Mechanisms," <i>Mol. Cell. Biol.</i> 15:3796-3804.	
61.	Xu, N. et al. (August 1997). "Modulation of the Fate of Cytoplasmic mRNA by AU-Rich Elements: Key Sequence Features Controlling mRNA Deadenylation and Decay," <i>Mol. Cell. Biol.</i> 18:4611-4621.	
62.	Zhang, G. et al. (October 23, 1996). "An Enhanced Green Fluorescent Protein Allows Sensitive Detection of Gene Transfer in Mammalian Cells," <i>Biochemical and Biophysical Research Communications</i> 227(3):707-711.	

Examiner	Date	
Signature	Considered	

6.1	ostitute for form 1449/PTO			Complete if Known		
Suc	istitute for form 1449/PTO			Application Number	10/814,634	
l in	NFORMATIO	N DI	SCLOSURE	Filing Date	April 1, 2004	
	TATEMENT			First Named Inventor	Tania KASTELIC	
	, , , , , , , , , , , , , , , , , , ,	. ,	A I LIOMAN	Art Unit	1636	
	(Use as many st	neets as	necessary)	Examiner Name	C. Qian	
Sheet	4	of	4	Attorney Docket Number	608352000100	

63.	Zhang, S. et al. (1995)."Indentification and Characterization of a Sequence Motif Involved in Nonsense-Mediated mRNA Decay," <i>Mol. Cell. Biol.</i> 15:2231-2244.	
64.	Zubiaga, A.M. et al. (April 1995). "The Nonamer UUAUUUAUU Is the Key AU-Rich Sequence Motif That Mediates mRNA Degradation," <i>Molecular and Cellular Biology</i> 15(4):2219-2230.	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.